

(12) INTERNATIONAL APPLICATION PUBLISHED UNDER THE PATENT COOPERATION TREATY (PCT)

(19) World Intellectual Property  
Organization  
International Bureau



(43) International Publication Date  
29 December 2004 (29.12.2004)

PCT

(10) International Publication Number  
**WO 2004/112597 A1**

(51) International Patent Classification<sup>7</sup>: A61B 3/06,  
3/113, 5/00, 5/16

(21) International Application Number:  
PCT/HU2004/000060

(22) International Filing Date: 18 June 2004 (18.06.2004)

(25) Filing Language: English

(26) Publication Language: English

(30) Priority Data:  
P0301899 20 June 2003 (20.06.2003) HU

(71) Applicants and

(72) Inventors: FEHÉR, János [HU/HU]; Tárogató lejtő 8,  
H-1021 Budapest (HU). FEHÉR, Ákos [HU/HU]; Táro-  
gató lejtő 8, H-1021 Budapest (HU).

(74) Agent: ADVOPATENT OFFICE OF PATENT AND  
TRADEMARK ATTORNEYS; P.O. Box 11, H-1251  
Budapest (HU).

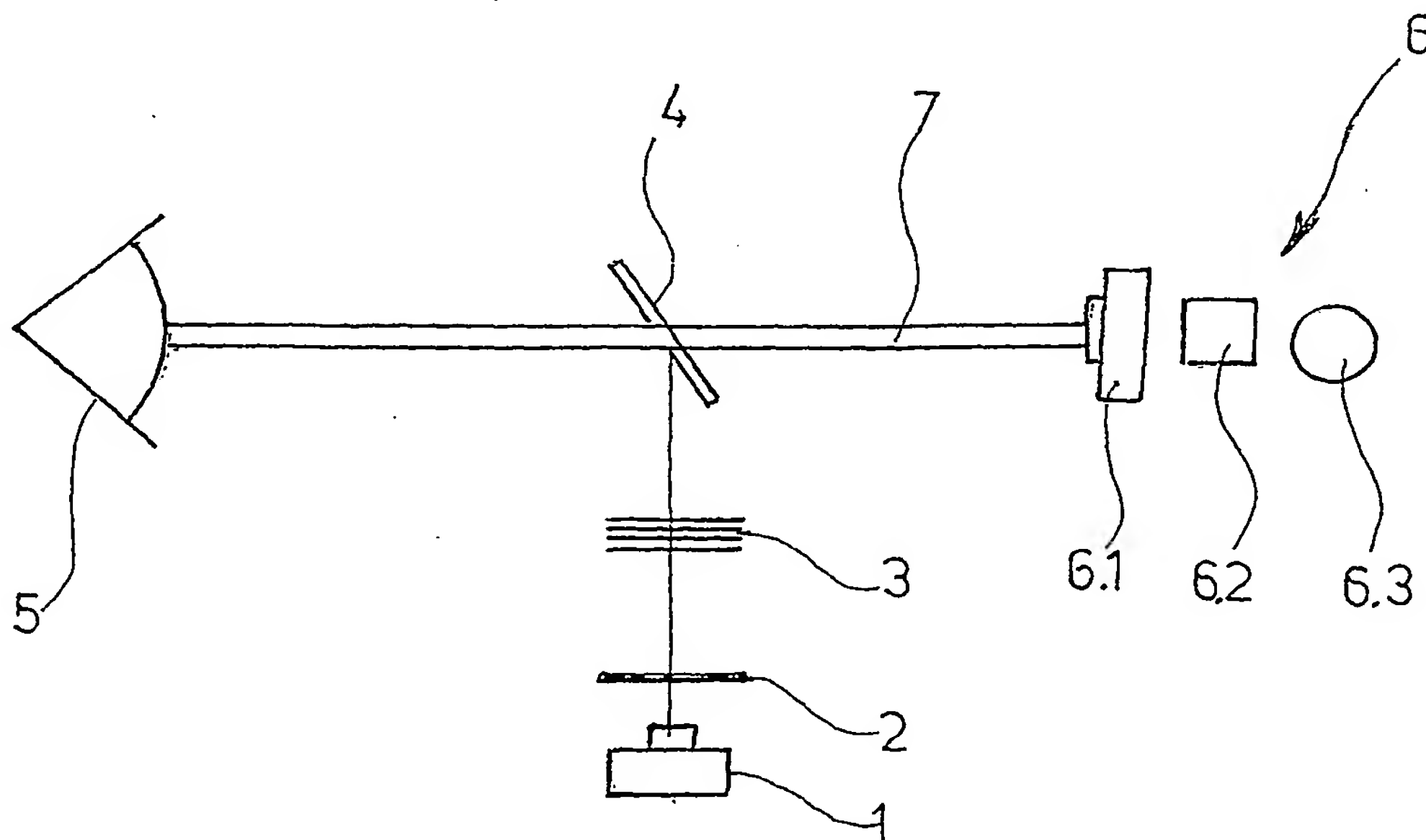
(81) Designated States (*unless otherwise indicated, for every  
kind of national protection available*): AE, AG, AL, AM,  
AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN,  
CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI,  
GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE,  
KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD,  
MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG,  
PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM,  
TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM,  
ZW.

(84) Designated States (*unless otherwise indicated, for every  
kind of regional protection available*): ARIPO (BW, GH,  
GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM,  
ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM),  
European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI,  
FR, GB, GR, HU, IE, IT, LU, MC, NL, PL, PT, RO, SI, SL,  
SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ,  
GW, ML, MR, NE, SN, TD, TG).

Published:  
— with international search report

[Continued on next page]

(54) Title: PROCESS AND APPARATUS FOR EXAMINING THE VISUAL FUNCTIONS OF THE EYE



(57) Abstract: The visual function is determined with the help of test images, comprising inducing photostress induced by illuminating the eye with an intense light, then measuring the time needed for the recovery of the visual function before the illumination. The test images are periodically moving test images, and the visual function is determined on the basis of detecting the phenomenon of optokinetic nystagmus. According to another process the visual function is determined by measuring critical fusion frequency (CFF) before and after the photostress.

WO 2004/112597 A1



— *before the expiration of the time limit for amending the claims and to be republished in the event of receipt of amendments*

*For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.*